

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/529,349  
Source: PG  
Date Processed by STIC: 2/9/06

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 02/09/2006

PATENT APPLICATION: US/10/529,349

TIME: 12:31:08

Input Set : A:\P1988R1 Sequence Listing.txt

Output Set: N:\CRF4\02012006\J529349.raw

3 <110> APPLICANT: Bodary-Winter, Sarah C.  
 4 Clark, Hilary  
 5 Jackman, Janet K.  
 6 Schoenfeld, Jill R.  
 7 Williams, P. Mickey  
 8 Wood, William I.  
 9 Wu, Thomas D.  
 11 <120> TITLE OF INVENTION: Novel Compositions and Methods for the Treatment of  
 Psoriasis  
 13 <130> FILE REFERENCE: P1988R1-US  
 15 <140> CURRENT APPLICATION NUMBER: US 10/529,349  
 16 <141> CURRENT FILING DATE: 2005-03-25  
 18 <150> PRIOR APPLICATION NUMBER: PCT/US03/027382  
 19 <151> PRIOR FILING DATE: 2003-08-28  
 21 <150> PRIOR APPLICATION NUMBER: US 60/414,484  
 22 <151> PRIOR FILING DATE: 2002-09-26  
 24 <160> NUMBER OF SEQ ID NOS: 48  
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 36 cccatactca gtagccacga tggaggatgat gaacctgatg gagcagccta 150  
 38 tcaagggtgac tgagtggcag cagacataca cctacgactc gggatatccac 200  
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 44 acaccagggg ggtgcccccc agccaagggtg acctggagta ccagatgtcc 350  
 46 acaacagcca gggccaaacg ggtgcgggag gccatgtgcc ctggtgtgtc 400  
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 50 ccaacctgca gcgactggcc gagccgtccc agctgctcaa gtcggccatt 500  
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 60 gaataccagc gacctggaca cagcccgtcg caccaccagc atcctgcaca 750  
 62 acctctccca ccaccgggag gggctgctcg ccatcttcaa gtcgggtggc 800  
 64 atccctgctc tgggtccgcat gctcagctcc cctgtggagt cggtcctgtt 850  
 66 ctatgccatc accacgtgc acaacctgct cctgtaccag gagggcgcca 900  
 68 agatggccgt gcgcctggcc gacgggctgc aaaagatggt gcccctgctc 950  
 70 aacaagaaca accccaagtt cctggccatc accaccgact gcctgcagct 1000  
 72 cctggcctac ggcaaccagg agagcaagct gatcatcctg gccaatggtg 1050  
 74 ggccccaggc cctcgtgcag atcatgcgta actacagtta tgaaaagctg 1100

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80 tgaccagcaa cagccccgc ctggtgcaga actgcctgtg gaccctgcgc 1250
82 aacctctcag atgtggccac caagcaggag ggccctggaga gtgtgctgaa 1300
84 gattctggtg aatcagctga gtgtggatga cgtcaacgtc ctcacctgtg 1350
86 ccacgggcac actctccaac ctgacatgca acaacagcaa gaacaagacg 1400
88 ctggtgacac agaacagcgg tgtggaggct ctcacccatg ccatcctgcg 1450
90 tgctggtgac aaggacgaca tcacggagcc tgccgtctgc gctctgcgcc 1500
92 acctcactag ccgccacct gaggcgcaga tggcccagaa ctctgtgcgt 1550
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108 ctcgctcgggtg gagaacatcc agcgcgtggc tgccggggtg ctgtgtgagc 1950
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112 gccccactca tggagttgct gcactccgc aacgagggca ctgccaccta 2050
114 cgctgtgcgc gtccgtttcc gcactctcga ggacaagaac ccagactacc 2100
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120 agatgacatg gatgccacct accgccccat gtactccagc gatgtgcccc 2250
122 ttgaccgcgt ggagatgcac atggacatgg atggagacta ccccatcgac 2300
124 acctacagcg accgctcag gccccgtac cccactgcag accacatgct 2350
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128 tgcaggcgat ggggcaagac agaaaagtgc ctgagctggg gaagccgggg 2450
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132 tcttgggata gtgttctgct cctgcttttc tgtcctgggc atgggtccag 2550
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150 tcacacccct gtcccaccca cacagctgcc ctgagctgacc ccgagaagtg 3000
152 ctcttggtg acccctctgg tgtgtggtga ggggctttct cttccccctc 3050
154 ctgtttcaga cccccccatt tccgcacat ggtgtggggg gctgggggag 3100
156 gtccaagcag agtgttttat tattatcgct ttatgttttt ggttattggt 3150
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161 <211> LENGTH: 745
162 <212> TYPE: PRT
163 <213> ORGANISM: Homo sapiens
165 <400> SEQUENCE: 2
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167 1 5 10 15

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| 169 | Trp | Gln | Gln | Thr | Tyr | Thr | Tyr | Asp | Ser | Gly | Ile | His | Ser | Gly | Ala |
| 170 |     |     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |
| 172 | Asn | Thr | Cys | Val | Pro | Ser | Val | Ser | Ser | Lys | Gly | Ile | Met | Glu | Glu |
| 173 |     |     |     | 35  |     |     |     |     |     | 40  |     |     |     |     | 45  |
| 175 | Asp | Glu | Ala | Cys | Gly | Arg | Gln | Tyr | Thr | Leu | Lys | Lys | Thr | Thr | Thr |
| 176 |     |     |     | 50  |     |     |     |     |     | 55  |     |     |     |     | 60  |
| 178 | Tyr | Thr | Gln | Gly | Val | Pro | Pro | Ser | Gln | Gly | Asp | Leu | Glu | Tyr | Gln |
| 179 |     |     |     | 65  |     |     |     |     |     | 70  |     |     |     |     | 75  |
| 181 | Met | Ser | Thr | Thr | Ala | Arg | Ala | Lys | Arg | Val | Arg | Glu | Ala | Met | Cys |
| 182 |     |     |     | 80  |     |     |     |     |     | 85  |     |     |     |     | 90  |
| 184 | Pro | Gly | Val | Ser | Gly | Glu | Asp | Ser | Ser | Leu | Leu | Leu | Ala | Thr | Gln |
| 185 |     |     |     | 95  |     |     |     |     |     | 100 |     |     |     |     | 105 |
| 187 | Val | Glu | Gly | Gln | Ala | Thr | Asn | Leu | Gln | Arg | Leu | Ala | Glu | Pro | Ser |
| 188 |     |     |     | 110 |     |     |     |     |     | 115 |     |     |     |     | 120 |
| 190 | Gln | Leu | Leu | Lys | Ser | Ala | Ile | Val | His | Leu | Ile | Asn | Tyr | Gln | Asp |
| 191 |     |     |     | 125 |     |     |     |     |     | 130 |     |     |     |     | 135 |
| 193 | Asp | Ala | Glu | Leu | Ala | Thr | Arg | Ala | Leu | Pro | Glu | Leu | Thr | Lys | Leu |
| 194 |     |     |     | 140 |     |     |     |     |     | 145 |     |     |     |     | 150 |
| 196 | Leu | Asn | Asp | Glu | Asp | Pro | Val | Val | Val | Thr | Lys | Ala | Ala | Met | Ile |
| 197 |     |     |     | 155 |     |     |     |     |     | 160 |     |     |     |     | 165 |
| 199 | Val | Asn | Gln | Leu | Ser | Lys | Lys | Glu | Ala | Ser | Arg | Arg | Ala | Leu | Met |
| 200 |     |     |     | 170 |     |     |     |     |     | 175 |     |     |     |     | 180 |
| 202 | Gly | Ser | Pro | Gln | Leu | Val | Ala | Ala | Val | Val | Arg | Thr | Met | Gln | Asn |
| 203 |     |     |     | 185 |     |     |     |     |     | 190 |     |     |     |     | 195 |
| 205 | Thr | Ser | Asp | Leu | Asp | Thr | Ala | Arg | Cys | Thr | Thr | Ser | Ile | Leu | His |
| 206 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |     | 210 |
| 208 | Asn | Leu | Ser | His | His | Arg | Glu | Gly | Leu | Leu | Ala | Ile | Phe | Lys | Ser |
| 209 |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     | 225 |
| 211 | Gly | Gly | Ile | Pro | Ala | Leu | Val | Arg | Met | Leu | Ser | Ser | Pro | Val | Glu |
| 212 |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     |     | 240 |
| 214 | Ser | Val | Leu | Phe | Tyr | Ala | Ile | Thr | Thr | Leu | His | Asn | Leu | Leu | Leu |
| 215 |     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |
| 217 | Tyr | Gln | Glu | Gly | Ala | Lys | Met | Ala | Val | Arg | Leu | Ala | Asp | Gly | Leu |
| 218 |     |     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |
| 220 | Gln | Lys | Met | Val | Pro | Leu | Leu | Asn | Lys | Asn | Asn | Pro | Lys | Phe | Leu |
| 221 |     |     |     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |
| 223 | Ala | Ile | Thr | Thr | Asp | Cys | Leu | Gln | Leu | Leu | Ala | Tyr | Gly | Asn | Gln |
| 224 |     |     |     | 290 |     |     |     |     |     | 295 |     |     |     |     | 300 |
| 226 | Glu | Ser | Lys | Leu | Ile | Ile | Leu | Ala | Asn | Gly | Gly | Pro | Gln | Ala | Leu |
| 227 |     |     |     | 305 |     |     |     |     |     | 310 |     |     |     |     | 315 |
| 229 | Val | Gln | Ile | Met | Arg | Asn | Tyr | Ser | Tyr | Glu | Lys | Leu | Leu | Trp | Thr |
| 230 |     |     |     | 320 |     |     |     |     |     | 325 |     |     |     |     | 330 |
| 232 | Thr | Ser | Arg | Val | Leu | Lys | Val | Leu | Ser | Val | Cys | Pro | Ser | Asn | Lys |
| 233 |     |     |     | 335 |     |     |     |     |     | 340 |     |     |     |     | 345 |
| 235 | Pro | Ala | Ile | Val | Glu | Ala | Gly | Gly | Met | Gln | Ala | Leu | Gly | Lys | His |
| 236 |     |     |     | 350 |     |     |     |     |     | 355 |     |     |     |     | 360 |
| 238 | Leu | Thr | Ser | Asn | Ser | Pro | Arg | Leu | Val | Gln | Asn | Cys | Leu | Trp | Thr |
| 239 |     |     |     | 365 |     |     |     |     |     | 370 |     |     |     |     | 375 |
| 241 | Leu | Arg | Asn | Leu | Ser | Asp | Val | Ala | Thr | Lys | Gln | Glu | Gly | Leu | Glu |

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| 242 |                 | 380                 |                     | 385 |  | 390 |
| 244 | Ser Val Leu Lys | Ile Leu Val Asn Gln | Leu Ser Val Asp Asp | Val |  |     |
| 245 |                 | 395                 |                     | 400 |  | 405 |
| 247 | Asn Val Leu Thr | Cys Ala Thr Gly Thr | Leu Ser Asn Leu Thr | Cys |  |     |
| 248 |                 | 410                 |                     | 415 |  | 420 |
| 250 | Asn Asn Ser Lys | Asn Lys Thr Leu Val | Thr Gln Asn Ser Gly | Val |  |     |
| 251 |                 | 425                 |                     | 430 |  | 435 |
| 253 | Glu Ala Leu Ile | His Ala Ile Leu Arg | Ala Gly Asp Lys Asp | Asp |  |     |
| 254 |                 | 440                 |                     | 445 |  | 450 |
| 256 | Ile Thr Glu Pro | Ala Val Cys Ala Leu | Arg His Leu Thr Ser | Arg |  |     |
| 257 |                 | 455                 |                     | 460 |  | 465 |
| 259 | His Pro Glu Ala | Glu Met Ala Gln Asn | Ser Val Arg Leu Asn | Tyr |  |     |
| 260 |                 | 470                 |                     | 475 |  | 480 |
| 262 | Gly Ile Pro Ala | Ile Val Lys Leu Leu | Asn Gln Pro Asn Gln | Trp |  |     |
| 263 |                 | 485                 |                     | 490 |  | 495 |
| 265 | Pro Leu Val Lys | Ala Thr Ile Gly Leu | Ile Arg Asn Leu Ala | Leu |  |     |
| 266 |                 | 500                 |                     | 505 |  | 510 |
| 268 | Cys Pro Ala Asn | His Ala Pro Leu Gln | Glu Ala Ala Val Ile | Pro |  |     |
| 269 |                 | 515                 |                     | 520 |  | 525 |
| 271 | Arg Leu Val Gln | Leu Leu Val Lys Ala | His Gln Asp Ala Gln | Arg |  |     |
| 272 |                 | 530                 |                     | 535 |  | 540 |
| 274 | His Val Ala Ala | Gly Thr Gln Gln Pro | Tyr Thr Asp Gly Val | Arg |  |     |
| 275 |                 | 545                 |                     | 550 |  | 555 |
| 277 | Met Glu Glu Ile | Val Glu Gly Cys Thr | Gly Ala Leu His Ile | Leu |  |     |
| 278 |                 | 560                 |                     | 565 |  | 570 |
| 280 | Ala Arg Asp Pro | Met Asn Arg Met Glu | Ile Phe Arg Leu Asn | Thr |  |     |
| 281 |                 | 575                 |                     | 580 |  | 585 |
| 283 | Ile Pro Leu Phe | Val Gln Leu Leu Tyr | Ser Ser Val Glu Asn | Ile |  |     |
| 284 |                 | 590                 |                     | 595 |  | 600 |
| 286 | Gln Arg Val Ala | Ala Gly Val Leu Cys | Glu Leu Ala Gln Asp | Lys |  |     |
| 287 |                 | 605                 |                     | 610 |  | 615 |
| 289 | Glu Ala Ala Asp | Ala Ile Asp Ala Glu | Gly Ala Ser Ala Pro | Leu |  |     |
| 290 |                 | 620                 |                     | 625 |  | 630 |
| 292 | Met Glu Leu Leu | His Ser Arg Asn Glu | Gly Thr Ala Thr Tyr | Ala |  |     |
| 293 |                 | 635                 |                     | 640 |  | 645 |
| 295 | Ala Ala Val Leu | Phe Arg Ile Ser Glu | Asp Lys Asn Pro Asp | Tyr |  |     |
| 296 |                 | 650                 |                     | 655 |  | 660 |
| 298 | Arg Lys Arg Val | Ser Val Glu Leu Thr | Asn Ser Leu Phe Lys | His |  |     |
| 299 |                 | 665                 |                     | 670 |  | 675 |
| 301 | Asp Pro Ala Ala | Trp Glu Ala Ala Gln | Ser Met Ile Pro Ile | Asn |  |     |
| 302 |                 | 680                 |                     | 685 |  | 690 |
| 304 | Glu Pro Tyr Gly | Asp Asp Met Asp Ala | Thr Tyr Arg Pro Met | Tyr |  |     |
| 305 |                 | 695                 |                     | 700 |  | 705 |
| 307 | Ser Ser Asp Val | Pro Leu Asp Pro Leu | Glu Met His Met Asp | Met |  |     |
| 308 |                 | 710                 |                     | 715 |  | 720 |
| 310 | Asp Gly Asp Tyr | Pro Ile Asp Thr Tyr | Ser Asp Gly Leu Arg | Pro |  |     |
| 311 |                 | 725                 |                     | 730 |  | 735 |
| 313 | Pro Tyr Pro Thr | Ala Asp His Met Leu | Ala                 |     |  |     |
| 314 |                 | 740                 |                     | 745 |  |     |

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316 <210> SEQ ID NO: 3
317 <211> LENGTH: 1120
318 <212> TYPE: DNA
319 <213> ORGANISM: Homo sapiens
321 <400> SEQUENCE: 3
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324 caagcgggcc aaagccaagg ccaccaagaa gcggccacag cgggccacat 100
326 ccaatgtctt cgcaatgttt gaccagtccc agatccagga gtttaaggag 150
328 gctttcaaca tgattgacca gaaccgtgat ggcttcattg acaaggagga 200
330 cctgcacgac atgctggcct cgctggggaa gaacccaca gacgaatacc 250
332 tggagggcat gatgagcgag gcccggggc catacaactt caccatgttc 300
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360 cacaaatgca agctcaccaa ggtcccctct cagtcccctt ccctacaccc 1000
362 tgacgccaga tgccgcacac ccaacgccac cagccatggg agtgtgctca 1050
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366 tagaggactg agacaacatg 1120
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369 <211> LENGTH: 172
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371 <213> ORGANISM: Homo sapiens
373 <400> SEQUENCE: 4
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378 20 25 30
380 Ile Gln Glu Phe Lys Glu Ala Phe Asn Met Ile Asp Gln Asn Arg
381 35 40 45
383 Asp Gly Phe Ile Asp Lys Glu Asp Leu His Asp Met Leu Ala Ser
384 50 55 60
386 Leu Gly Lys Asn Pro Thr Asp Glu Tyr Leu Glu Gly Met Met Ser
387 65 70 75
389 Glu Ala Pro Gly Pro Tyr Asn Phe Thr Met Phe Leu Thr Met Phe
390 80 85 90
392 Gly Glu Lys Leu Asn Gly Thr Asp Pro Glu Asp Val Ile Arg Asn
393 95 100 105
395 Ala Phe Ala Cys Phe Asp Glu Glu Ser Ser Gly Phe Ile His Glu
396 110 115 120

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:17; N Pos. 2298

Seq#:39; N Pos. 34

Seq#:40; Xaa Pos. 11

**VERIFICATION SUMMARY**

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L:2881 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:2250

L:4157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0

L:4201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0